## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	nt's or agent's file reference	FOR FURTHER A	ACTION	See Form PCT/IPEA/416					
Internati	onal application No.	International filing d	ate (day/month/year)	Priority date (day/month/year)					
PCT	/FR2004/050714	16.12.200	4	17.12.2003					
International Patent Classification (IPC) or national classification and IPC									
D04H3/05									
Applicant									
SAINT-GOBAIN VETROTEX FRANCE S.A.									
1.	<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>								
2.	This REPORT consists of a to	tal of	sheets, including	g this cover sheet.					
3.	This report is also accompanie	ed by ANNEXES, comprising	:						
	a. (sent to the applica	ant and to the International Bu	ureau) a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
		ational Bureau only) a total of	(indicate type and number	er of electronic carrier(s))					
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	This report contains indication	ns relating to the following iter	ms:						
	Box No. I Basi	s of the report							
	Box No. II Prior	rity							
	Box No. III Non	establishment of opinion with	n regard to novelty, invent	tive step and industrial applicability					
	Box No. IV Lack	c of unity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Cert	ain documents cited							
	Box No. VII Cert	ain defects in the international	application						
	Box No. VIII Certain observations on the international application								
Date of submission of the demand			Date of completion of th	nis report					
Name and mailing address of the IPEA/EP			Authorized officer						
Faccionile No.			Talanhana Na						

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/050714

Box	No. I	H	Basis of the report					
1.			the <b>language</b> , this report is based on the internation or this item.	nal application in the language in which it	was filed, unless otherwise			
			report is based on translations from the original language into the following language h is the language of a translation furnished for the purposes of:					
		int	international search (Rule 12.3 and 23.1(b))					
		pul	blication of the international application (Rule 12.4)					
		int	ernational preliminary examination (Rule 55.2 and/o	or 55.3)				
2.	recei		rd to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished to the Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to t):					
		the intern	national application as originally filed/furnished					
	$\boxtimes$	the descr	ription:					
		pages	1-10		as originally filed/furnished			
		pages*		received by this Authority on				
		pages*		received by this Authority on				
	$\boxtimes$	the claim	ns:					
					as originally filed/furnished			
		nos.*						
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		the draw						
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		sheets*						
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	$\sqsubseteq$	a sequen	uence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
3.	Ш	The ame	endments have resulted in the cancellation of:					
		the	e description, pages					
		the	e claims, nos.					
		the	the drawings, sheets/figs					
		the	e sequence listing (specify):					
		any	y table(s) related to sequence listing (specify):					
4.			ort has been established as if (some of) the amenda e been considered to go beyond the disclosure as file					
		the	e description, pages					
			e claims, nos.					
			e drawings, sheets/figs					
		any	y table(s) related to sequence listing (specify):					
*	If ite	m 4 applie	es, some or all of those sheets may be marked "supe	rseded."				

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/050714

Вох		asoned statement under A ations and explanations su	rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)		1-11	YES
		Claims		NO
	Inventive step	(IS) Claims		YES
		Claims	1-11	NO
	Industrial app	licability (IA) Claims	1-11	YES
		Claims		NO
_	Citatiana and ann	1 ( (D. 1. 70.7)		

- 2. Citations and explanations (Rule 70.7)
  - 1. Prior art
  - D1: WO 02/084005 A (ROEDERER FRANCOIS; SAINT GOBAIN VETROTEX (FR); DROUX MICHEL (FR); AST) 24 October 2002 (2002-10-24)
  - D2: FR-A-2 503 115 (INOUE JAPAX RESEARCH INC) 8 October 1982 (1982-10-08)
  - 2. Novelty
  - 2.1 Claims 1 to 11
  - D1 is considered to be the closest prior art.
  - D1 describes a method and a facility for producing a continuous strand mat from at least one roving (or reel) by spraying onto a conveyor belt.

The difference between claim 1 (and respectively claim 8) lies in the fact that the speed of the roving reel is governed by a motor driving the reel directly so that the roving is unwound at a constant linear speed.

The subject matter of claims 1 and 8 is therefore novel (PCT Article 33(1) and (2)). The same applies to dependent claims 2 to 7 and 9 to 11.

- 3. Inventive step
- 3.1 Claims 1 and 8

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The closest prior art is D1 (cf. paragraph 2.1 above).

The problem solved by the difference (cf. paragraph 2.1 above) is that of preventing too frequent breakage of the strands caused by unwinding the rovings (or reels) by traction.

The solution consists in replacing the traction device of D1 by a motor driving the reel directly so that the linear speed of the roving is constant.

This solution is described in D2. It applies to the unwinding of heavy reels weighing up to 30 Kg (page 2, line 24), for which the strand must be unwound and conveyed to its work area in an extremely regular manner and with minimum unwinding resistance (page 2, line 35 to page 3, line 3). The nozzle through which the strand passes only applies a slight tension thereto, said tension being imparted thereto by the pressurised fluid (present application, page 6, lines 16 to 27).

All that is required is to replace the traction device of D1 with a regular unwinding system as described in D2.

To a person skilled in the art seeking to solve the stated problem, replacing the traction device of D1 with the unwinding device of D2 is a routine technical step and considered obvious.

Claim 1 and claim 8, covering respectively the method and the facility are not considered inventive within the meaning of PCT Article 33(1) and (3).

3.2 Dependent claims 2 to 7 and 9 to 11

The features of the dependent claims are all described in D1 and D2 (pulley and encoding device: figures 1, 2; page 8, line 16 to page 10 line 15).

Claims 2 to 7 and 9 to 11 are therefore not inventive (PCT Article 33(1) and (3)).